

FIG. 1A

gggcaggaagacggcgctgcccggaggagc ggggcgggcgggcgggggggggg														-153 -77 -1					
	CTG L				-	• •					-	·		,,,					57 19
GCC	TGG	TGC	TTC	GGC	TTC	CTG	GTG	CTG	GGC	TAC	TTG	CTC	TAC	CTG	GTC	TTC	GGC	GCA	114
A	W	C	F	G	F	L	V	L	G	Y	L	L	Y	L	V	F	G	A	38
GTG	GTC	TTC	TCC	TCG	GTG	GAG	CTG	CCC	TAT	GAG	GAC	CTG	CTG	CGC	CAG	GAG	CTG	CGC	171
V	V	F	S	S	V	E	L	P	Y	E	D	L	L	R	Q	E	L	R	57
AAG	CTG	AAG	CGA	CGC	TTC	TTG	GAG	GAG	CAC	GAG	TGC	CTG	TCT	GAG	CAG	CAG	CTG	GAG	228
K	L	K	R	R	F	L	E	E	H	E	C	L	S	E	Q	Q	L	E	76
CAG	TTC	CTG	GGC	CGG	GTG	CTG	GAG	GCC	AGC	AAC	TAC	GGC	GTG	TCG	GTG	CTC	AGC	AAC	285
Q	F	L	G	R	V	L	E	A	S	N	Y	G	V	S	V	L	S	N	95
GCC	TCG	GGC	AAC	TGG	AAC	TGG	GAC	TTC	ACC	TCC	GCG	CTC	TTC	TTC	GCC	AGC	ACC	GTG	342
A	S	G	N	W	N	W	D	F	T	S	A	L	F	F	A	S	T	V	114
CTC	TCC	ACC	ACA	GGT	TAT	GGC	CAC	ACC	GTG	CCC	TTG	TCA	GAT	GGA	GGT	AAG	GCC	TTC	399
L	S	T	T	G	Y	G	H	T	V	P	L	S	D	G	G	K	A	F	133
TGC	ATC	ATC	TAC	TCC	GTC	ATT	GGC	ATT	CCC	TTC	ACC	CTC	CTG	TTC	CTG	ACG	GCT	GTG	456
C	I	I	Y	S	V	I	G	I	P	F	T	L	L	F	L	T	A	V	152
GTC	CAG	CGC	ATC	ACC	GTG	CAC	GTC	ACC	CGC	AGG	CCG	GTC	CTC	TAC	TTC	CAC	ATC	CGC	513
V	Q	R	I	T	V	H	V	T	R	R	P	V	L	Y	F	H	I	R	171
TGG W	GGC G	TTC F	TCC S		CAG Q	GTG V	GTG V	GCC A			CAT H		GTG V	CTC L	CTT L	GGG G	TTT F	GTC V	570 190
ACT T	GTG V		TGC C	TTC F	TTC F	TTC F		CCG P	GCC A	GCT A		TTC F		GTC V	CTG L	GAG E	GAT D	GAC D	627 209

FIG. 1B-1

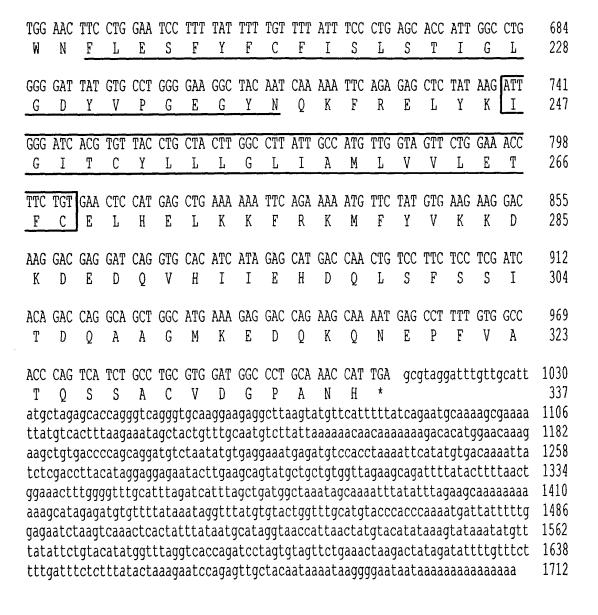
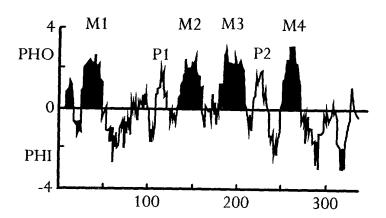


FIG. 1B-2



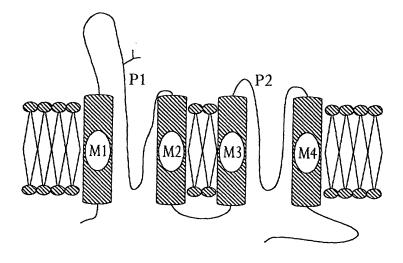


FIG. 1C

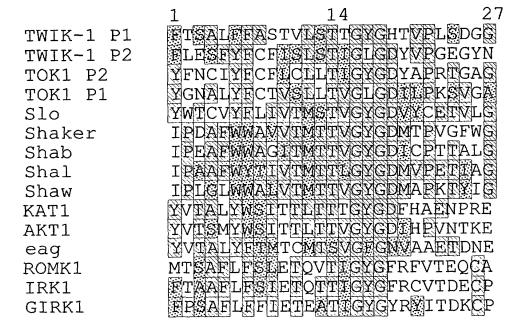


FIG. 2A

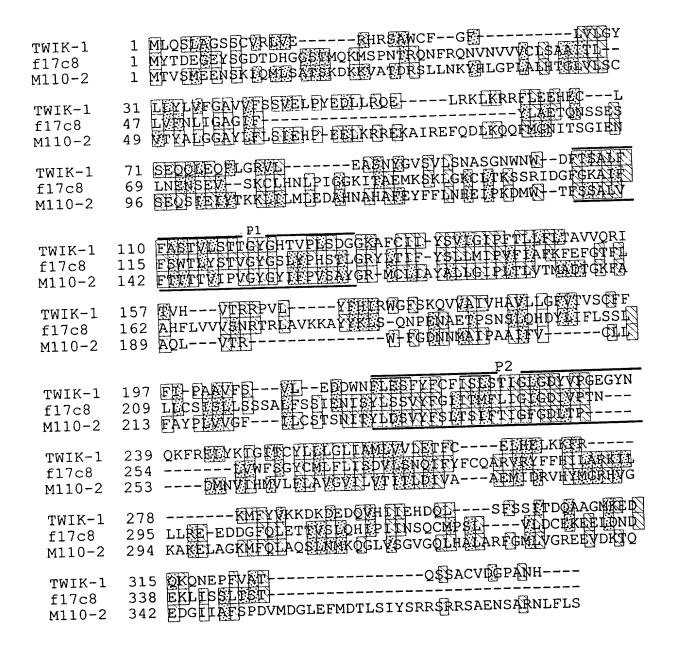
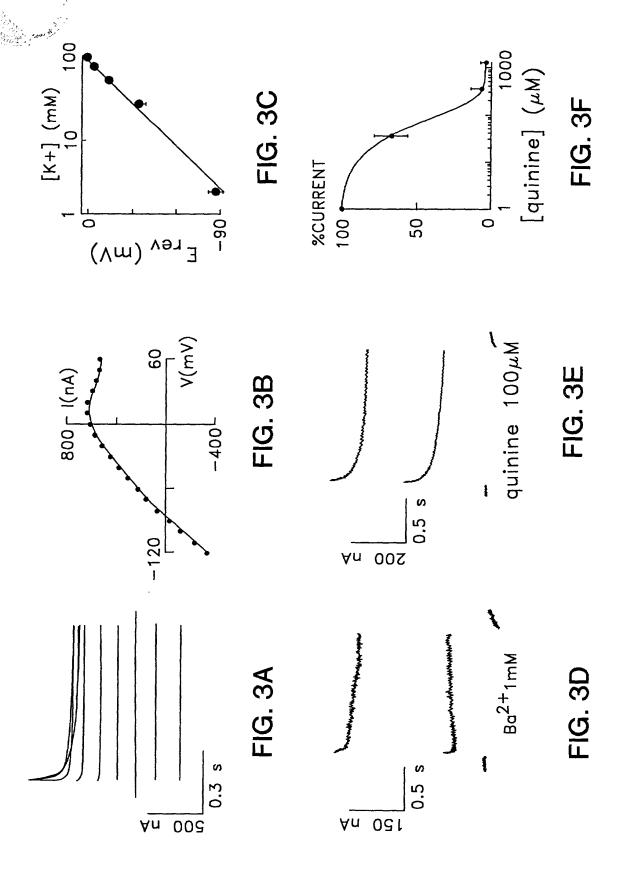
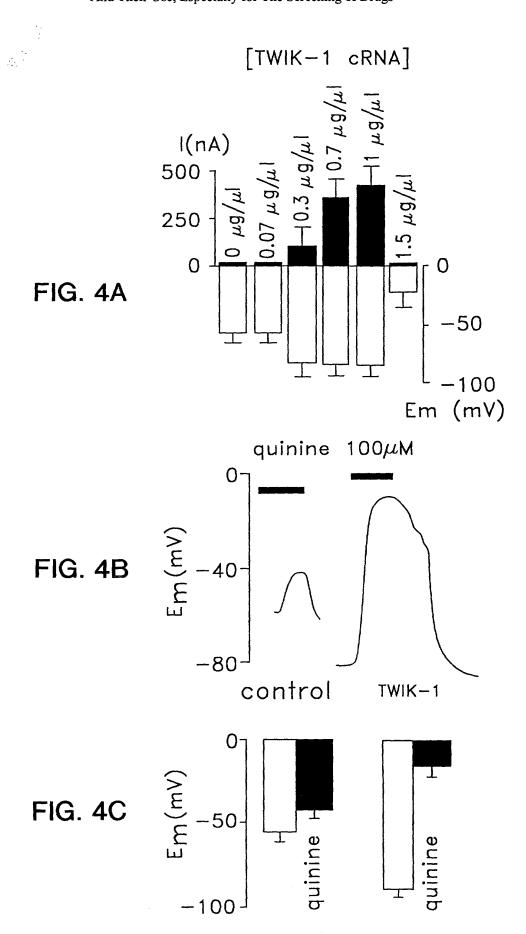


FIG. 2B

4





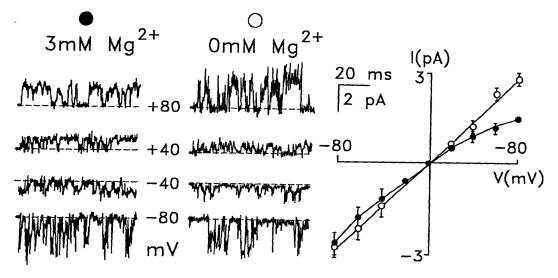
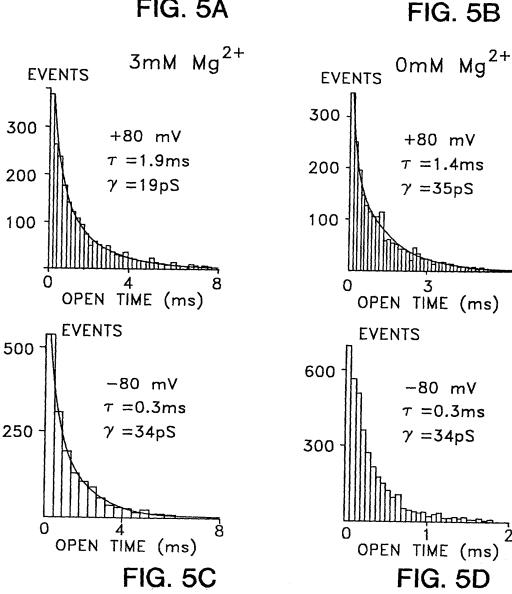
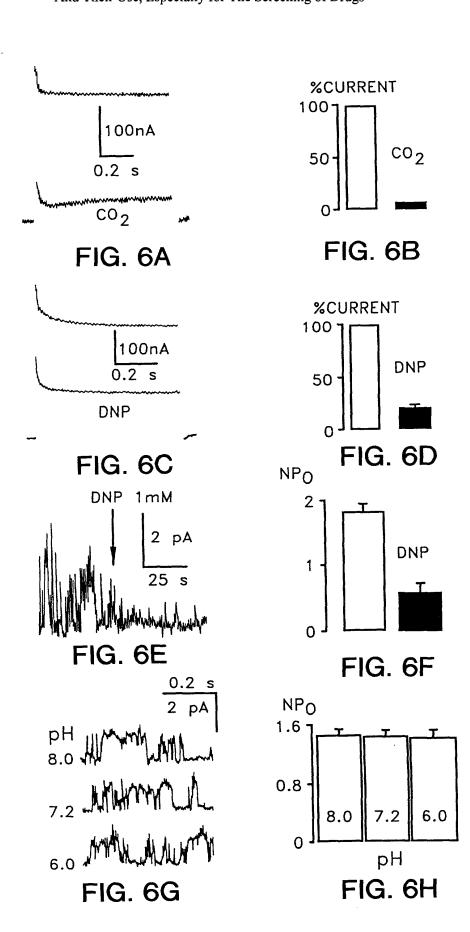


FIG. 5A

FIG. 5B





ilar.

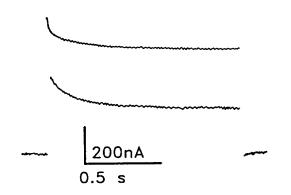


FIG. 7A

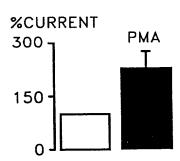


FIG. 7B

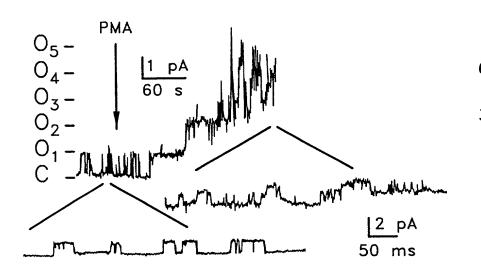


FIG. 7C

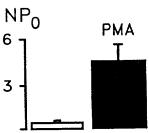


FIG. 7D



tgccctgcgcggatagcgcgagcgagccatgccccaggccgcctccg -77 gggcagcagcagcggcggccgatgcgcgggccgggggcgccgggggggccggggggccggccggcggcccgggcgggccgg 57 ATG AAG CGG CAG AAC GTG CGC ACG CTG GCG CTC ATC GTG TGC ACC TTC ACC TAC CTG R I C T T Y 19 K Q N V T L v L Ε N R т Α C T V L CTG GTG GGC GCC GCG GTC TTC GAC GCG CTG GAG TCG GAG CCC GAG CTG ATC CGG 114 GAG V G Α Α v F D L E S E P E Т E R 38 Α ۲. D L E S Ε E E R M 171 CAG CGG CTG GAG CTG CGG CAG CAG GAG CTG CGG GCG CGC TAC AAC CTC AGC CAG GGC R Ε R Q E Y 57 Q L L Q L R A R N L S Q G Ε Q R L R Q E L R A R Y N s E G GGC TAC GAG GAG CTG GAG CGC GTC GTG CTG CGC CTC AAG CCG CAC AAG GCC GGC GTG 228 Ε Ε G 76 G Y Ε L R V ٧ L R L K ₽ Н K V G Y E Ė Ε R v V L R L K P Н K Α G v TGG CGC TTC GCC GGC TTC TAC TTC GCC ATC ACC GTC ACC ATC 285 CAG TCC ATC ACC GGC s F G F Y F I T I T Т I 95 Q W Α ν G R F G s F Y Ι Т G Q W A TAC GGG CAC GCG GCA CCC AGC ACG GAT GGC GGC AAG GTG TTC TGC ATG TTC TAC GCG 342 Y G Н P s Т D G G K V F С M F Y 114 P s T K G Α D G V C Y Н Α G M CTG CTG GGC ATC CCG CTC ACG CTC GTC ATG TTC CAG AGC CTG GGC GAG CGC ATC AAC 399 I G P T L V М F Q s G Ε R I N 133 G I P Т L I M F S G E N ACC TTG GTG AGG TAC CTG CTG CAC CGC GCC AAG AAG GGG CTG GGC ATG CGG CGC GCC 456 T V Y Н R K K G G М 152 A Т E V R Y Н R A K R G G M R Н Α GAC GTG TCC ATG GCC AAC ATG GTG CTC ATC GGC TTC TTC TCG TGC ATC AGC ACG CTG 513 N M V L I F F C 171 D S М Α G S I S T L E ν S M Α N M V G F C s L TGC ATC GGC GCC GCC GCC TTC TCC CAC TAC GAG CAC TGG ACC TTC TTC CAG GCC TAC 570 C I G Α A Α F S Н Y Ε H т F Q Y 190 Α G Α Α Α S Y Y E R W 0 Y ACC CTC ACC ACC ATC GGC TTC TAC TAC TGC TTC ATC GGC GAC TAC GTG GCG CTG CAG 627 Y Y С F Т Т T I G F G D Y V 209 I L A Q L Y Y C I Т L Т T I G F G D Y ν Α Q AAG GAC CAG GCC CTG CAG ACG CAG CCG CAG TAC GTG GCC TTC AGC TTC GTC TAC ATC 684 T V K מ Q Α L Q Q P Q Y Α F S F ν Y Ι 228 Т ₽ v F F ĸ D Q L Q Q Q Y A s V I Α CTT ACG GGC CTC ACG GTC ATC GGC GCC TTC CTC AAC CTC GTG GTG CTG CGC TTC ATG 741 T G T V I G Α F N L V R F M 247 L L L V L L Т G Т V I N V L R F М

FIG. 8A



ACC T T	ATG M M	AAC N N	GCC A A	GAG E E	GAC D D	GAG E E	AAG K K	CGC R R	GAC D D	GCC A A	GAG E E	CAC H H	CGC R R	GCG A A	CTG L L	CTC L L	ACG T T	CGC R <u>H</u>	798 266
AAC N N	GGG G G	CAG Q Q	GCG A A	GGC G Y	GGC G G	GGC G L	GGA G G	GGG G G	GGT G L	GGC G S	AGC S Q	GCG A L	CAC H <u>S</u>	ACT T G	ACG T S	GAC D L	ACC T G	GCC A D	855 285
TCA S VRPE	TCC S DPV	T	GCG A <u>A</u> A	GCA A A	GCG A A	G	EVGV G GGC	G	G	TTC F F	CGC R R	AAC N N	GTC V V	TAC Y Y	GCG A A	GAG E E	GTG V V	CTG L L	912 304
CAC H H	TTC F F	CAG Q Q	TCC S S	ATG M M	TGC C C	TCG S S	TGC C C	CTG L L	TGG W W	TAC Y Y	AAG K K	AGC S S	CGC R R	GAG E E	AAG K K	CTG L L	CAG Q Q	TAC Y Y	969 323
TCC S S	ATC I I	CCC P P	ATG M M	ATC I I	ATC I I	CCG P P	CGG R R	GAC D D	CTC L L	TCC S S	ACG T T	TCC S S	GAC D D	ACG T T	TGC C C	GTG V V	GAG E E	CAG Q H	1026 342
AGC S S	CAC H H	TCG S S	TCG S S	CCG P P	GGA G G	GGG G G	GGC G G	GGC G G	CGC R R	TAC Y Y	AGC S S	GAC D D	ACG T T	CCC P P	TCG S S	CGA R H	CGC R P	TGC C C	1083 361
CTG L L	TGC C C	AGC S S	GGG G G	GCG A T	CCA P Q	CGC R R	TCC S S	GCC A A	ATC I I	AGC S S	TCG S S	GTG V V	TCC S S	ACG T T	GGT G G	CTG L L	CAC H H	AGC S S	1140 380
CTG L L	TCC S A	ACC T	TTC F F	CGC R R	GGC G G	CTC L L	ATG M M	AAG K K	CGC R R	AGG R R	AGC S S	TCC S S	GTG V V	TGA *	. ct	gaca	cgag	ggacc	1200 395
gga gga tca gct gct gaa gcg cag ctc gaa ctc	tggagcacctgggggcgggggggggacccctgctgggaggccaggagactgccctgctgcttctgcccagtg ggaccccgcacaacatccctcaccactctccccagagacccccatctccgactgtgcctgcttgcaccagcggca ggaggccgggctctgaggacccctggggagcccccatcggagcccccatctcgagagccctgcaaattccagaaacttggtgggg tcagggagaaaggcagagaggagag														1352 1428 1504 1580 1656 1732 1808 1884 1960 2036 2112 2188 2264 2340				

FIG. 8B

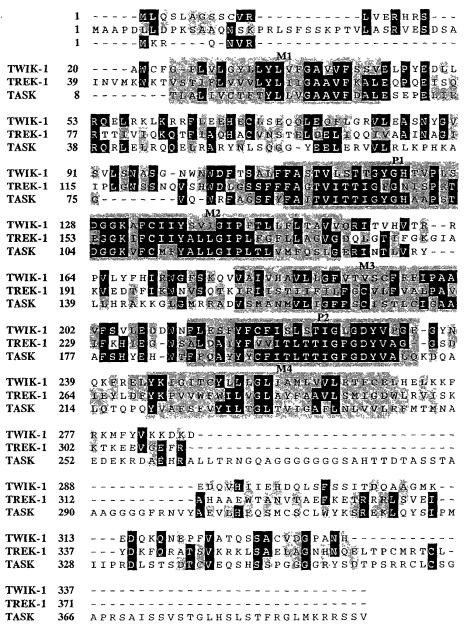
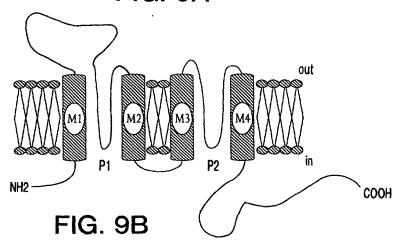


FIG. 9A



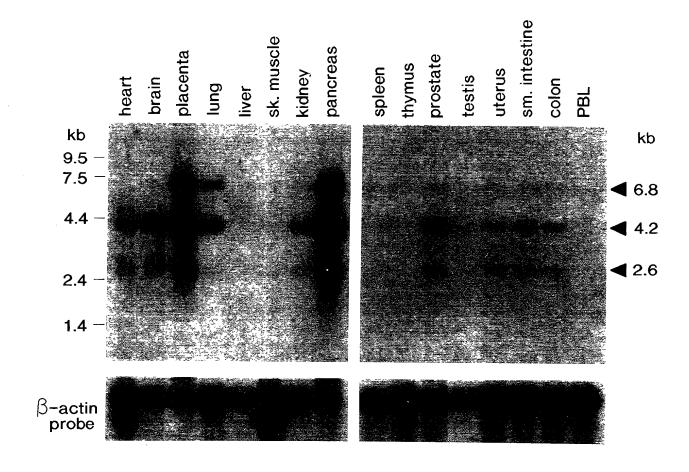


FIG. 10

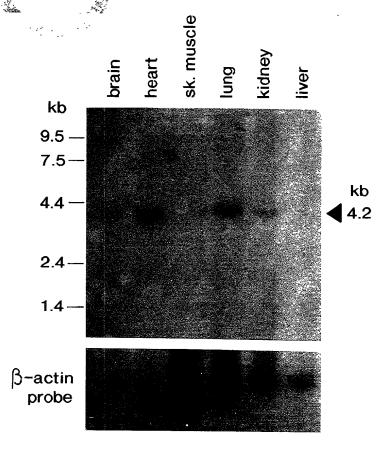


FIG. 11A

CA1 CA3 FIG. 11B PLCo SN GI

FIG. 11C

FIG. 11D

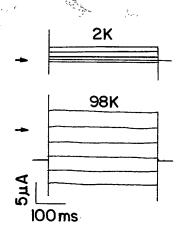


FIG. 12A

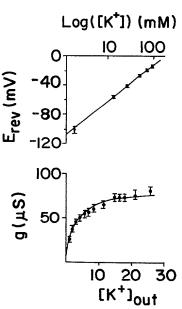


FIG. 12C

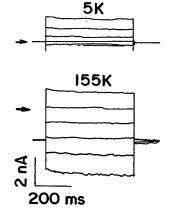


FIG. 12E

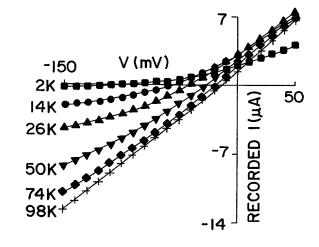


FIG. 12B

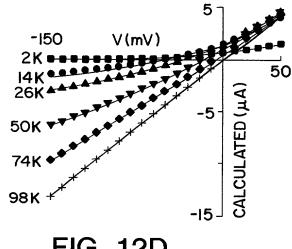


FIG. 12D

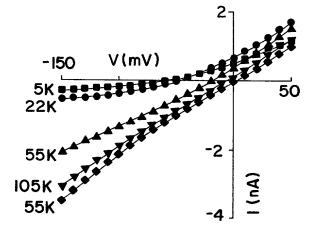


FIG. 12F

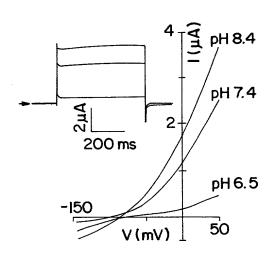


FIG. 13A

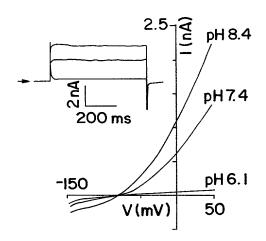


FIG. 13C

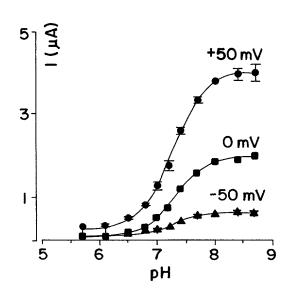


FIG. 13B

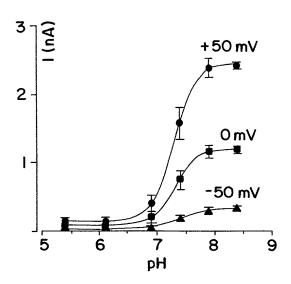


FIG. 13D